

Title (en)  
EXHAUST FRAME

Title (de)  
ABGASRAHMEN

Title (fr)  
CADRE D'ÉCHAPPEMENT

Publication  
**EP 3196422 A1 20170726 (EN)**

Application  
**EP 17152469 A 20170120**

Priority  
JP 2016011010 A 20160122

Abstract (en)  
The present application relates to cooling of an exhaust frame (4) of a gas turbine and attempts to solve the problem of stagnation zones in the cooling path, in particular downstream of struts (11). The exhaust frame includes: inner and an outer casing (9A, 9B), inner and outer diffuser walls (10A, 10B) located between the inner and outer casings, thereby defining an inner cooling passage, an exhaust passage and an outer cooling passage; a strut (11) which connects the inner casing (9A) and the outer casing (9B) to each other; a strut cover (12) defining an annular connection passage (22) connecting the inner cooling passage (16) and the outer cooling passage (19) to each other; and a communication hole (24; 28; 29) provided in a wall of the outer cooling passage (19) at a position downstream of a center line (X) of the strut (11) in the flow direction of a combustion gas (7).

IPC 8 full level  
**F01D 25/12** (2006.01); **F01D 25/30** (2006.01)

CPC (source: CN EP KR US)  
**F01D 9/065** (2013.01 - EP US); **F01D 25/12** (2013.01 - CN EP US); **F01D 25/14** (2013.01 - EP US); **F01D 25/24** (2013.01 - KR); **F01D 25/26** (2013.01 - US); **F01D 25/30** (2013.01 - CN EP KR US); **F02C 7/00** (2013.01 - KR); **F02C 7/18** (2013.01 - US); **F05D 2260/20** (2013.01 - EP US); **F05D 2260/941** (2013.01 - EP US); **Y02T 50/60** (2013.01 - US)

Citation (applicant)  
JP 2005083199 A 20050331 - HITACHI LTD

Citation (search report)  
• [X] US 2003161718 A1 20030828 - NGUYEN LY D [US], et al  
• [X] EP 2578816 A2 20130410 - GEN ELECTRIC [US]  
• [XI] US 2007089421 A1 20070426 - JANGILI RANJIT K [US]  
• [I] WO 2014105492 A1 20140703 - UNITED TECHNOLOGIES CORP [US]

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Designated contracting state (EPC)  
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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3196422 A1 20170726; EP 3196422 B1 20191218**; CN 106996321 A 20170801; CN 106996321 B 20200107; JP 2017129107 A 20170727; JP 6580494 B2 20190925; KR 101981379 B1 20190522; KR 20170088296 A 20170801; US 10422249 B2 20190924; US 2017211424 A1 20170727

DOCDB simple family (application)  
**EP 17152469 A 20170120**; CN 201710037420 A 20170119; JP 2016011010 A 20160122; KR 20170006919 A 20170116; US 201715408805 A 20170118